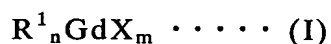


## CLAIMS

1. A pneumatic tire, characterized in that a rubber composition including a polybutadiene with a cis-1,4 bond content of not less than 99.0% and a vinyl bond content of not more than 0.3% as measured by a Fourier transform infrared spectroscopy is used in any one of tire members.

2. A pneumatic tire according to claim 1, wherein the polybutadiene is a polymer obtained by polymerizing 1,3-butadiene in the presence of a catalyst composed of a metallocene type cation complex of a gadolinium compound.

3. A pneumatic tire according to claim 2, wherein the metallocene type cation complex of the gadolinium compound is represented by the following general formula (I):



(wherein Gd is gadolinium;  $R^1$  is cyclopentadienyl group, a substituted cyclopentadienyl group, indenyl group, a substituted indenyl group, fluorenyl group or a substituted fluorenyl group; X is an anion; n is an integer of 1 or 2; and m is an integer of 1 or 2).

4. A pneumatic tire according to claim 1, wherein the tire member is a sidewall.

5. A pneumatic tire according to claim 1, wherein the tire member is a tread.